

Subject: USSN 10/764,075; Dkt. No: 19240-447US2 Alignment of SEQ ID NO:43 and SEQ ID NO:2

Alignment of SEQ ID NO:43 and SEQ ID NO:2

SeqID:43 (1) taccgaagagctacccgacgagttcgtgggtggtgacggcaaaatgaaagagctcagccccc
seqID:2 (1) -----

SeqID:43 (61) agatgggtacttctattacctaggaactggcccagaagcttcacttcctacggcgctaac
seqID:2 (1) -----

SeqID:43 (121) aaagaaggcatcgtatgggttgcaactgagggagccttgaatacacccaaagaccacatt
seqID:2 (1) -----

SeqID:43 (181) ggcacccgcaatcctaataacaatgctgccaccgtgctacaacttcctcaaggacaaca
seqID:2 (1) -----

SeqID:43 (241) ttgccaaaaggcttctacgcagaggggaagcagagggcggcagtcgaagcctcttctcgctcc
seqID:2 (1) -----

SeqID:43 (301) tcatacagtagtcgcggttaattcaagaaattcaactcctggcagcagtaggggaattct
seqID:2 (1) -----

SeqID:43 (361) cctgctcgaatggctagcggaggtgggtgaaactgcctcgcgctattgctgctagacaga
seqID:2 (1) -----

SeqID:43 (421) ttgaaccagcttgagagcaaagtcttctggtaaaggccaacaacaacaggccaactgtc
seqID:2 (1) -----

SeqID:43 (481) actaagaaatctgctgctgaggcatctaaaaagcctcgccaaaaacgtactgccacaaaa
seqID:2 (1) -----

SeqID:43 (541) cagtacaacgtcactcaagcatttgggagacgtggtccagaaacaaaccaaaggaaatttc
seqID:2 (1) -----

SeqID:43 (601) ggggaccaagacctaatcagacaaggaactgattacaacattggccgcgaattgcacaa
seqID:2 (1) -----

```

SeqID: 43      ( 661) ttgtctccaagtgcctctgcattctttggaatgtcacgcattggcatggaagtccacact
seqID: 2      ( 1)  -----

SeqID: 43      ( 721) tcgggaacatggctgacttatcatggagccattaattggatgacaaagatccacaattc
seqID: 2      ( 1)  -----

SeqID: 43      ( 781) aaagacaacgtcatactgctgaacaagcacattgacgcatacaaaacattcccaccaaca
seqID: 2      ( 1)  -----

SeqID: 43      ( 841) gagcctaaaaaggacaaaaagaaaaagactgatgaagctcagccttgcgcgagagacaa
seqID: 2      ( 1)  -----

SeqID: 43      ( 901) aagaagcagcccactgtgactcttcttctgctggctgacatggatgatttctccagacaa
seqID: 2      ( 1)  -----

SeqID: 43      ( 961) cttcaaaattccatgagtggagcttctgctgattcaactcaggcataaacactcatgATG
seqID: 2      ( 1)  -----ATG

SeqID: 43      ( 1021) ACCACACAAGGCAGATGGgctatgtaaacgttttcgcaattccgtttacgatacatagtc
seqID: 2      ( 4)  ACCACACAAGGCAGATGG-----

SeqID: 43      ( 1081) tactcttgtgcagaatgaattctctgtaactaaacagcacaaagtaggttttagttaacttta
seqID: 2      ( 22) -----

SeqID: 43      ( 1141) atctcacatagcaatctttaatcaatgtgtaacattagggaggacttgaaagagccacca
seqID: 2      ( 22) -----

SeqID: 43      ( 1201) cattttcatcgaggccacgcggagtacgatcgagggtacagtgaataatgctagggagag
seqID: 2      ( 22) -----

SeqID: 43      ( 1261) ctgcctatatggaagagccctaattgtgtaaaattaatttttagtagtgctatccccatgtg
seqID: 2      ( 22) -----

SeqID: 43      ( 1321) attttaatatgcttctttaggagaatgac
seqID: 2      ( 22) -----

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Subject: USSN 10/764,075; Dkt. No: 19240-447US2 Alignment of SEQ ID NO:43 and SEQ ID NO:4

Alignment of SEQ ID NO:43 and SEQ ID NO:4

SeqID:43 (1) taccgaagagctacccgacgagttcgtggtggtgacggcaaaatgaaagagctcagcccc
seqID:4 (1) -----

SeqID:43 (61) agatggtacttctattacctaggaactggcccagaagcttcacttcctacggcgctaac
seqID:4 (1) -----

SeqID:43 (121) aaagaaggcatcgtatgggttgcaactgaggggagccttgaatacacccaaagaccacatt
seqID:4 (1) -----

SeqID:43 (181) ggcacccgcaatcctaataacaatgctgccaccgtgctacaacttcctcaaggaacaaca
seqID:4 (1) -----

SeqID:43 (241) ttgccaaaaggcttctacgcagaggggaagcagaggcggcagtcgaagcctcttctcgctcc
seqID:4 (1) -----

SeqID:43 (301) tcatacagtagtcgcggtaattcaagaaattcaactcctggcagcagtaggggaattct
seqID:4 (1) -----

SeqID:43 (361) cctgctcgaatggctagcggagggtggtgaaactgccctcgcgctattgctgctagacaga
seqID:4 (1) -----

SeqID:43 (421) ttgaaccagcttgagagcaaagtttctggtaaaggccaacaacaagaaggccaactgtc
seqID:4 (1) -----

SeqID:43 (481) actaagaaatctgctgctgaggcatctaaaaagcctcgccaaaaacgtactgccacaaa
seqID:4 (1) -----

SeqID:43 (541) cagtacaacgtcactcaagcatttgggagacgtggtccagaacaaacccaaggaaatttc
seqID:4 (1) -----

SeqID:43 (601) ggggaccaagacctaatcagacaaggaactgattacaaacattggccgcaaatgtgcacaa
seqID:4 (1) -----

```

SeqID:43      (   -661)  ttgtctcaagtgcctctgcattctttggaatgtcacgcattggcatggaagtcacacct
seqID:4        (     1)  -----

SeqID:43      (   721)  tcgggaacatggctgacttatcatggagccattaaattggatgacaaagatccacaattc
seqID:4        (     1)  -----

SeqID:43      (   781)  aaagacaacgtcatactgctgaacaagcacattgacgcatacaaaacattcccaccaaca
seqID:4        (     1)  -----

SeqID:43      (   841)  gagcctaaaaaggacaaaaaagaaaagactgatgaagctcagcctttgccgcagagacaaa
seqID:4        (     1)  -----

SeqID:43      (   901)  aagaagcagcccactgtgactcttcttctcgcggctgacatggatgattttccagacaaa
seqID:4        (     1)  -----

SeqID:43      (   961)  cttcaaaattccatgagtggagcttctgctgattcaactcaggcataaacactcatgatg
seqID:4        (     1)  -----

SeqID:43      (  1021)  accaCACAAGGCAGATGGGCTATGTaaacggttttcgcaattccggtttacgatacatagtc
seqID:4        (     1)  ----CACAAGGCAGATGGGCTATGT-----

SeqID:43      (  1081)  tactcttgtgcagaatgaattctcgtaaactaaacagcacaaagtagggttagttaacttta
seqID:4        (    22)  -----

SeqID:43      (  1141)  atctcatatagcaatctttaatcaatgtgtaaacattagggaggacttgaagagccacca
seqID:4        (    22)  -----

SeqID:43      (  1201)  cattttcatcgaggccacgcggagtacgatcgagggtacagtgaataatgctaggggagag
seqID:4        (    22)  -----

SeqID:43      (  1261)  ctgcctatatggaagagccctaattgtgtaaaattaatttttagttagtgctatccccatgtg
seqID:4        (    22)  -----

SeqID:43      (  1321)  attttaatagcttcttaggagaatgac
seqID:4        (    22)  -----

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Subject:

USSN 10/764,075; Dkt. No: 19240-447US2 Alignment of SEQ ID NO:43 and SEQ ID NO:6

Alignment of SEQ ID NO:43 and SEQ ID NO:6

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SeqID:43      (    1) taccgaagagctacccgacgagttcgtggtggtgacggcaaaatgaaagagctcagcccc
seqID:6        (    1) -----

SeqID:43      (   61) agatggtacttctattacctaggaactggccagaaagcttcacttcctacggcgctaac
seqID:6        (    1) -----

SeqID:43      (  121) aaagaaggcatcgtatgggttgcaactgaggagccttgaatacacccaagaccacatt
seqID:6        (    1) -----

SeqID:43      (  181) ggcacccgcaatcctaataacaatgctgccaccgtgtacaacttcctcaaggacaaca
seqID:6        (    1) -----

SeqID:43      (  241) ttgccaaaaggcttctacgcagaggggaagcagaggcggcagtcgaagcctcttctcgctcc
seqID:6        (    1) -----

SeqID:43      (  301) tcatcacgtagtcgcggttaattcaagaaattcaactcctggcagcagtaggggaaattct
seqID:6        (    1) -----

SeqID:43      (  361) cctgctcgaatggctagcggaggtggtgaaactgccttcgcgtattgctgctagacaga
seqID:6        (    1) -----

SeqID:43      (  421) ttgaaccagcttgagagcaaagtcttctggtaaaggccaacaacaacaggccaaactgtc
seqID:6        (    1) -----

SeqID:43      (  481) actaagaaatctgctgctgaggcatctaaaaagcctcgccaaaaacgtactgccacaaa
seqID:6        (    1) -----

SeqID:43      (  541) cagtacaacgtcactcaagcatttgggagacgtggtccagaacaacccaaggaaatttc
seqID:6        (    1) -----

SeqID:43      (  601) ggggaccaagacctaatacagacaagggaactgattacaacattggccgcaaatgacaaa
seqID:6        (    1) -----
```

SeqID:43 (661) ttgtctccaagtgcctctgcattcttttggaaatgtcacgcattggcatggaagtccacacct
seqID:6 (1) -----

SeqID:43 (721) tcgggaacatggctgacttatcatggagccattaaattggatgacaaagatccacaattc
seqID:6 (1) -----

SeqID:43 (781) aaagacaaacgtcatactgctgaacaagcacattgacgcatacaaaacattcccaccaaca
seqID:6 (1) -----

SeqID:43 (841) gagcctaaaaaggacaaaaaagaaaaagactgatgaagctcagcctttgccgcagagacaa
seqID:6 (1) -----

SeqID:43 (901) aagaagcagccactgtgactcttcttctcctgcggctgacatggatgatttctccagacaa
seqID:6 (1) -----

SeqID:43 (961) cttcaaaattccatgagtggagcttctgctgattcaactcaggcataaacactcatgatg
seqID:6 (1) -----

SeqID:43 (1021) accacacaaggcagatgggctatgtaaacgttttcgcaattccggtttacgatacatagtc
seqID:6 (1) -----

SeqID:43 (1081) tactcttgtgcagaatgaattctcgtaaactaaacagcacaaagtaggttagttaacttta
seqID:6 (1) -----

SeqID:43 (1141) atctcacatagcaatctttaataatgtgtaacattagggaggacttgaaagagccacca
seqID:6 (1) -----

SeqID:43 (1201) catTTTTTCATCGAGGCCACGCGGAGTACgacgcaggggtacagtgaataatgctaggagag
seqID:6 (1) ---TTTCATCGAGGCCACGCGGAGTAC-----

SeqID:43 (1261) ctgcctatatggaagagccctaattgtgtaaaattaatttttagtagtgctatccccatgtg
seqID:6 (25) -----

SeqID:43 (1321) attttaatagcttcttaggagaatgac
seqID:6 (25) -----

Alignment of SEQ ID NO:43 and SEQ ID NO:8

SeqID:43 (1) taccgaagagctacccgacgagttcgtgggtgacggcaaaatgaaagagctcagcccc
seqID:8 (1) -----

SeqID:43 (61) agatgggtactttctattacctaggaactggcccagaagcttcaacttcctacggcgctaac
seqID:8 (1) -----

SeqID:43 (121) aaagaaggcatcgatatgggttgcaactgaggagccttgaatacacccaaagaccacatt
seqID:8 (1) -----

SeqID:43 (181) ggcacccgcaatcctaataacaatgctgccaccgtgctacaacttcctcaaggaacaaca
seqID:8 (1) -----

SeqID:43 (241) ttgcaaaaaggcttctacgcagagggaagcagaggcggcagtcaggcctcttctcgctcc
seqID:8 (1) -----

SeqID:43 (301) tcatcacgtagtcgcggaattcaagaaattcaactcctggcagcagtaggggaattct
seqID:8 (1) -----

SeqID:43 (361) cctgctcgaatggctagcggaggtggtgaaactgcctcgcgctattgctgctagacaga
seqID:8 (1) -----

SeqID:43 (421) ttgaaccagcttgagagcaaagtttctggtaaggccaacaacaaggccaactgtc
seqID:8 (1) -----

SeqID:43 (481) actaagaaatctgctgctgagggcatctaaaaagcctcgccaaaaacgtactgccacaaa
seqID:8 (1) -----

SeqID:43 (541) cagtacaacgtcaactcaagcatttgggagacgtggccagaacaacccaaggaaatttc
seqID:8 (1) -----

SeqID:43 (601) ggggaccaagacctaatcagacaaggaactgattacaacattggccgcgaattgcacaa
seqID:8 (1) -----

```

SeqID:43      ( 661) ttgtctccaagtgcctctgtcattctttggaatgtcacgcattggcatggaagtacacct
seqID:8        ( 1)  -----

SeqID:43      ( 721) tcgggaacatggctgacttatcatggagccattaaattggatgacaaagatccacaattc
seqID:8        ( 1)  -----

SeqID:43      ( 781) aaagacaacgtcatactgtgaacaagcacattgacgcatacaaaacattccaccaaca
seqID:8        ( 1)  -----

SeqID:43      ( 841) gagcctaaaaaggacaaaaagaaaaagactgatgaagctcagcctttgccgcagagacaa
seqID:8        ( 1)  -----

SeqID:43      ( 901) aagaagcagcccaactgtgactcttcttctcgcggtgacatggatgatttctccagacaa
seqID:8        ( 1)  -----

SeqID:43      ( 961) cttcaaaattccatgagtggagcttctgtctgattcaactcaggcataaacactcatgatg
seqID:8        ( 1)  -----

SeqID:43      ( 1021) accacacaaggcagatgggctatgtAAACGTTTTCGCAATTCCGTttacgatacatagtc
seqID:8        ( 1)  -----AAACGTTTTCGCAATTCCGT-----

SeqID:43      ( 1081) tactcttgtgcagaatgaattctcgttaactaaacagcacaaagtaggtttagttaacttta
seqID:8        ( 21) -----

SeqID:43      ( 1141) atctcacatagcaatctttaatcaatgtgtaacattagggaggacttgaaagagccacca
seqID:8        ( 21) -----

SeqID:43      ( 1201) cattttcatcgaggccacgcggagtacgatcgagggtagagtgaataatgctagggagag
seqID:8        ( 21) -----

SeqID:43      ( 1261) ctgcctatatggaagagccctaagtgtgtaaaattaatttttagtagtctatcccatgtg
seqID:8        ( 21) -----

SeqID:43      ( 1321) attttaatatgcttcttaggagaatgac
seqID:8        ( 21) -----

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Subject: USSN 10/764,075; Dkt. No: 19240-447US2 Alignment of SEQ ID NO:43 and SEQ ID NO:11

Alignment of SEQ ID NO:43 and SEQ ID NO:11

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SeqID:43      (      1)  taccgaagagctacccgacgagttcgtgggtggtgacggcaaaatgaaagagctcagcccc
seqID:11      (      1)  -----

SeqID:43      (     61)  agatggtacttctattacctaggaactggcccagaagcttcacttcctacggcgctaac
seqID:11      (      1)  -----

                        ++++++
SeqID:43      (    121)  aaagaAGGCATCGTATGGGTGCAactgagggagccttgaatacacccaaagaccacatt
seqID:11      (      1)  ----AGGCATCGTATGGGTGCA-----

SeqID:43      (    181)  ggcacccgcgaatcctaataacaatgctgccaccgtgctacaaacttcctcaaggaaacaaca
seqID:11      (     20)  -----

SeqID:43      (    241)  ttgccaaaaggcttctacgcagaggggaagcagaggcggcagctcaagcctcttctcgcctc
seqID:11      (     20)  -----

SeqID:43      (    301)  tcatcacgtagtcgcggttaattcaagaaattcaactcctggcagcagtaggggaaattct
seqID:11      (     20)  -----

SeqID:43      (    361)  cctgctcgaatggctagcggaggtggtgaaactgcccctcgcgctattgctgctagacaga
seqID:11      (     20)  -----

SeqID:43      (    421)  ttgaaccagcttgagagcaaaagtcttggttaagccaacaacaacaaggcacaactgtc
seqID:11      (     20)  -----

SeqID:43      (    481)  actaagaaatctgctgctgagggcatctaaaaagcctcgccaaaaacgtactgccacaaaa
seqID:11      (     20)  -----

SeqID:43      (    541)  cagtacaacgtcactcaagcatttgggagacgtgggtccagaacaaacccaaggaaatttc
seqID:11      (     20)  -----

SeqID:43      (    601)  ggggaccaagacctaatcagacaaggaactgattacaaacattggccgcaaattgcacaa
seqID:11      (     20)  -----
```

SeqID:43 (661) ttggtccaagtgcctctgcattcttttgaatgtcacgcattggcatggaagtcacacct
seqID:11 (20) -----

SeqID:43 (721) tcgggaacatggctgacttatcatggagccattaaattggatgacaaagatccacaattc
seqID:11 (20) -----

SeqID:43 (781) aaagacaacgtcatactgctgaacaagcacattgacgcatacaaaacattcccaccaa
seqID:11 (20) -----

SeqID:43 (841) gagcctaaaaaggacaaaaaagaaagactgatgaagctcagcctttgccgcagagacaa
seqID:11 (20) -----

SeqID:43 (901) aagaagcagcccactgtgactcttcttctcgcgctgacatggatgatttctcagacaa
seqID:11 (20) -----

SeqID:43 (961) cttcaaaattccatgagtggagcttctgctgattcaactcaggcataaacactcatgatg
seqID:11 (20) -----

SeqID:43 (1021) accacacaaggcagatgggctatgtaaactgttgcgaattccgtttacgatacatagtc
seqID:11 (20) -----

SeqID:43 (1081) tactcttgtgcagaatgaattctcgtaactaaacagcacaaagtaggttagttaacttta
seqID:11 (20) -----

SeqID:43 (1141) atctcacatagcaatctttaataatgtgtaacattaggaggacttgaaagagccacca
seqID:11 (20) -----

SeqID:43 (1201) cattttcatcaggccacgcggagtacgatcagggtacagtgaataatgctaggagag
seqID:11 (20) -----

SeqID:43 (1261) ctgcctatatggaagagccctaagtgtgtaaaattaatttttagtagtgctatcccatgtg
seqID:11 (20) -----

SeqID:43 (1321) attttaatagcttcttaggagaatgac
seqID:11 (20) -----

Subject: USSN 10/764,075; Dkt. No: 19240-447US2 Alignment of SEQ ID NO:43 and SEQ ID NO:13

Alignment of SEQ ID NO:43 and SEQ ID NO:13

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SeqID:43      (    1)  taccgaagagctacccgacgagttcgtggtggtgacggcaaaatgaaagagctcagcccc
seqID:13      (    1)  -----

SeqID:43      (   61)  agatggtacttctattacctaggaactggcccagaagcttcacttcctacggcgctaac
seqID:13      (    1)  -----

SeqID:43      (  121)  aaagaaggcatcgtatgggttgcaactgAGGGAGCCTTGAATACACCCAAAGACCAcatt
seqID:13      (    1)  -----AGGGAGCCTTGAATACACCCAAAGACCA-----
                               ++++++

SeqID:43      (  181)  ggcaccgcgaatcctaataacaatgctgccaccgtgctacaacttcctcaaggaacaaca
seqID:13      (   29)  -----

SeqID:43      (  241)  ttgcaaaaaggcttctacgcagaggggaagcagaggcggcagtcgaagcctctcttcgctcc
seqID:13      (   29)  -----

SeqID:43      (  301)  tcatcacgtagtcgcggttaattcaagaaattcaactcctggcagcagtaggggaaattct
seqID:13      (   29)  -----

SeqID:43      (  361)  cctgctcgaaatggctagcggaggtggtgaaactgcctcgcgctattgctgctagacaga
seqID:13      (   29)  -----

SeqID:43      (  421)  ttgaaccagcttgagagcaaaagtttctggtaaaggccaacaacaagaaggccaaactgtc
seqID:13      (   29)  -----

SeqID:43      (  481)  actaagaaatctgctgctgaggcatctaaaaagcctcgccaaaaacgtactgccacaaa
seqID:13      (   29)  -----

SeqID:43      (  541)  cagtacaacgtcactcaagcatttgggagacgtggtccagaacaacccaaggaatttc
seqID:13      (   29)  -----

SeqID:43      (  601)  ggggaccaagacctaatacagacaaggaactgattacaacattggccgcaaattgcacaa
seqID:13      (   29)  -----
```

SeqID: 43 (661) ttgtctccaagtgcctctgcattctttggaatgtcacgcattggcatggaagtcacacct
seqID: 13 (29) -----

SeqID: 43 (721) tcgggaacatggctgacttatcatggagccattaaattggatgacaaagatccacaattc
seqID: 13 (29) -----

SeqID: 43 (781) aaagacaacgtcatactgtctgaacaagcacattgacgcatacaaaacattcccaccaaca
seqID: 13 (29) -----

SeqID: 43 (841) gagcctaaaaaggacaaaaagaaaagactgatgaagctcagcctttgccgcagagacaa
seqID: 13 (29) -----

SeqID: 43 (901) aagaagcagcccactgtgactcttcttctcgtcgggtgacatggatgatttctccagacaa
seqID: 13 (29) -----

SeqID: 43 (961) cttcaaaattccatgagtgaggcttctgctgattcaactcaggcataaacactcatgatg
seqID: 13 (29) -----

SeqID: 43 (1021) accacacaaggcagatgggctatgtaaacgttttcgcaatccgtttacgatacatagtc
seqID: 13 (29) -----

SeqID: 43 (1081) tactctgtgcagaatgaattctcgtactaaacagcacagtaggtttagtttaacttta
seqID: 13 (29) -----

SeqID: 43 (1141) atctcacatagcaatctttaatcaatgtgtaacattagggaggacttgaaagagccacca
seqID: 13 (29) -----

SeqID: 43 (1201) cattttcatcgaggccacgcggagtacgatcgagggtagcagtgaataatgctaggggagag
seqID: 13 (29) -----

SeqID: 43 (1261) ctgcctatatggaagagccctaattgtgtaaaattaatttttagtagtgcctatccccatgtg
seqID: 13 (29) -----

SeqID: 43 (1321) attttaatagcttcttaggagaaatgac
seqID: 13 (29) -----

Subject: USSN 10/764,075; Dkt. No: 19240-447US2 Alignment of SEQ ID NO:43 and SEQ ID NO:14

Alignment of SEQ ID NO:43 and SEQ ID NO:14

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SeqID:43      (      1)  taccgaagagctacccgacgagttcgtggtggtgacggcaaaatgaaagagctcagcccc
seqID:14      (      1)  -----

SeqID:43      (    61)  agatggctacttctattacctaggaactggcccagaagcttcacttccctacggcgctaac
seqID:14      (      1)  -----

SeqID:43      (   121)  aaagaaggcatcgtatgggttgcaactgaggagccttgaaatacacccaaagaccattt
seqID:14      (      1)  -----

SeqID:43      (   181)  ggcaccgcgaatcctaataacaatgctgccaccgtgtacaaacttctcaaggaaaca
seqID:14      (      1)  -----

SeqID:43      (   241)  ttgcaaaaggcttctacgcagaggggaagcagaggcggcagtcgaagcctcttctcgctcc
seqID:14      (      1)  -----

SeqID:43      (   301)  tcatcacgtagtcgcgtaattcaagaaattcaactcctggcagcagtaggggaaattct
seqID:14      (      1)  -----

SeqID:43      (   361)  cctgctcgaatggctagcggaggtggtgaaactgccctcgcgctattgctgctagacaga
seqID:14      (      1)  -----

SeqID:43      (   421)  ttgaaccagcttgagagcaaagtcttctggttaaggccaacaacaacaaggccaactgtc
seqID:14      (      1)  -----

SeqID:43      (   481)  actaagaaatctgctgctgagggcatctaaaAAGCCTCGCCAAAAACGTACTgccacaaa
seqID:14      (      1)  -----AAGCCTCGCCAAAAACGTAC-----

SeqID:43      (   541)  cagtacaacgtcactcaagcatttgggagacgtggtccagaacaacccaaggaaatttc
seqID:14      (     21)  -----

SeqID:43      (   601)  ggggaccaagacctaatacagacaaggaaactgattacaacattggccgcaaattgcaca
seqID:14      (     21)  -----
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SeqID: 43 (661) tttgctccaagtgcctctgtcattctttggaatgtcacgcattggcatggaagtccacacct
seqID: 14 (21) -----

SeqID: 43 (721) tcgggaacatggctgacttatcatggagccattaaattggatgacaaagatccacaattc
seqID: 14 (21) -----

SeqID: 43 (781) aaagacaacgtcatactgctgaacaagcacattgacgcatacaaaacattcccaccaaca
seqID: 14 (21) -----

SeqID: 43 (841) gagcctaaaaaggacaaaaagaaaagactgatgaagctcagcctttgccgcagagacaa
seqID: 14 (21) -----

SeqID: 43 (901) aagaagcagccactgtgactcttcttctgctgaggatgatgttctccagacaa
seqID: 14 (21) -----

SeqID: 43 (961) cttcaaaattccatgagtggagcttctgctgattcaactcaggcataaactcatgatg
seqID: 14 (21) -----

SeqID: 43 (1021) accacacaaggcagatgggctatgtaaacgttttcgcaattccgtttacgatacatagtc
seqID: 14 (21) -----

SeqID: 43 (1081) tactcttgtgcagaatgaattctcgtaactaaacagcacaaagtaggtttagttaacttta
seqID: 14 (21) -----

SeqID: 43 (1141) atctcacatagcaatctttaatcaatgtgtaacattaggaggacttgaagagccacca
seqID: 14 (21) -----

SeqID: 43 (1201) cattttcatcgaggccacgcggagtacgatcgagggtacagtgaataatgctaggagag
seqID: 14 (21) -----

SeqID: 43 (1261) ctgcctatatggaagagccctaattgtgtaaaattaatttttagtagtgctatccccatgtg
seqID: 14 (21) -----

SeqID: 43 (1321) attttaatagcttcttaggagaatgac
seqID: 14 (21) -----

Subject: USSN 10/764,075; Dkt. No: 19240-447US2 Alignment of SEQ ID NO:43 and SEQ ID NO:16

Alignment of SEQ ID NO:43 and SEQ ID NO:16

SeqID:43 (1) taccgaagagctacccgacgagttcgtggtggtgacggcaaaatgaaagagctcagcccc
seqID:16 (1) -----

SeqID:43 (61) agatggtacttctattacctaggaactggcccagaagcttcacttcctcagcgcgctaac
seqID:16 (1) -----

SeqID:43 (121) aaagaaggcatcgatatgggttgcaactgaggagagccttgaatacacccaagaccacatt
seqID:16 (1) -----

SeqID:43 (181) ggcacccgcaatcctaataacaatgctgccaccgtgtacaacttcctcaaggaacaaca
seqID:16 (1) -----

SeqID:43 (241) ttgccaaaaggcttctacgcagaggggaagcagaggcggcagtcgaagcctctctcgcctcc
seqID:16 (1) -----

SeqID:43 (301) tcatcacgtagtcgcggttaattcaagaaattcaactcctggcagcagtaggggaaattct
seqID:16 (1) -----

SeqID:43 (361) cctgctcgaatggctagcggaggtggtgaaactgccctcgcgctattgctgctagacaga
seqID:16 (1) -----

SeqID:43 (421) ttgaaccagcttgagagcaaagtttctggtaaaggccaacaacaacaggcgaactgtc
seqID:16 (1) -----

SeqID:43 (481) actaagaaatctgctgctgaggcatctaaaaagcctcgcaaaaacgtactgccacaaaa
seqID:16 (1) -----

SeqID:43 (541) cagtacaacgtcactcaagcatttgggagacgtggtccagaacaaacccaaggaaatttc
seqID:16 (1) -----

SeqID:43 (601) ggggaccaagacctaatacagacaaggaactgattacaaacattggccgcaaatgacaaa
seqID:16 (1) -----

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+-----+
SeqID:43      ( 661) ttgtgtccaagtgcctctgcattctttggaatgTCACGCATTGGCATGGAAGTCACACct
SeqID:16      (   1) -----TCACGCATTGGCATGGAAGTCACAC--

SeqID:43      ( 721) tcgggaacatggctgacttatcatggagccattaaattggatgacaaagatccacaattc
SeqID:16      (   26) -----

SeqID:43      ( 781) aaagacaacgtcatactgctgaacaagcacattgacgcatacaaaacattccaccaaca
SeqID:16      (   26) -----

SeqID:43      ( 841) gagcctaaaaaggacaaaaaagaaaagactgatgaagctcagcctttgccgcagagacaa
SeqID:16      (   26) -----

SeqID:43      ( 901) aagaagcagccactgtgactcttcttctcgcggtgacatggatgatttctccagacaa
SeqID:16      (   26) -----

SeqID:43      ( 961) cttcaaaattccatgagtggagcttctgctgattcaactcaggcataaacactcatgatg
SeqID:16      (   26) -----

SeqID:43      ( 1021) accacacaaggcagatgggctatgtaaactgtttcgcaattccgtttacgatacatagtc
SeqID:16      (   26) -----

SeqID:43      ( 1081) tactcttgtgcagaatgaattctcgttaactaaacagcacaaagtaggtttagttaacttta
SeqID:16      (   26) -----

SeqID:43      ( 1141) atctcacatagcaatctttaatcaatgtgtaacattaggaggacttgaagagccacca
SeqID:16      (   26) -----

SeqID:43      ( 1201) cattttcatcgaggccacgcggagtacgacgcagggtacagtgaataatgctaggagag
SeqID:16      (   26) -----

SeqID:43      ( 1261) ctgcctatatggaagagccctaattgtgtaaaattaattttagtagtgctatccccatgtg
SeqID:16      (   26) -----

SeqID:43      ( 1321) attttaatagcttcttaggagaatgac
SeqID:16      (   26) -----

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